

K J Somaiya Institute of Engineering and Information

```
#include «stdio.h»
#define MAX 5
int QUEUE[MAX], REAR =-1, FRONT =-1;
void insertRear();
void deleteFront();
void deleteRear();
void insertFront();
void display();
bool isFull();
bool isEmpty();
 int main() {
int choice;
printf("Menu:\n 1. Insert from Rear\n 2. Delete from Front\n 3. "
"Insert from Front\n 4. Delete from Rear\n 5. Display\n 6. Exit\n");
while (true) {
printf("\nEnter choice: ");
scanf("%d", &choice);
switch (choice) {
case i.
 insertRear();
break;
case 2
 deletefront();
break;
case 3:
 insertFront();
 break;
 deleteRear();
break;
case 5:
 display();
break;
case 6:
 printf("Exiting...\n");
 return 0;
default:
 printf("Invalid choice");
```

### Technology

An Autonomous Institute Permanently Affiliated to the University of Mumbai



# SOMAIYA VIDYAVIHAR

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```
FRONT-REARM-1;
class
class
protection
protec
```



# SOMAIYA VIDYAVIHAR

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#### **Technology**

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#### **OUTPUT:**

```
adminit@a00-G7-Microtower-PC:~$ ./a.out
1. Insert from Rear
2. Delete from Front
3. Insert from Front
4. Delete from Rear
5. Display
6. Exit
Enter choice: 1
Enter Element: 45
Enter choice: 1
Enter Element: 32
Enter choice: 126
Invalid choice
Enter choice: 1
Enter Element: 12
Enter choice: 5
Printing DeQueue:
        45
                      12
              32
Enter choice: 4
The deleted element from rear is: 12
Enter choice: 5
Printing DeQueue:
             32
        45
Enter choice:
```

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